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| | | oly complying with the requirements |
| 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. INFORMAL PATENT APPLICATION (PTO-152) which gives rea | Note the attached EXAMINE ason(s) why the oath or declar | ER'S AMENDMENT or NOTICE OF aration is deficient. |
| 6. CORRECTED DRAWINGS (as "replacement sheets") must be seemant and continuous changes required by the Notice of Draftsperson's and the continuous changes required by the attached Examiner's American Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) each sheet. Replacement sheet(s) should be labeled as such in the he | Patent Drawing Review (PT endment / Comment or in the | e Office action of wings in the front (not the back) of |
| 7. DEPOSIT OF and/or INFORMATION about the deposit of attached Examiner's comment regarding REQUIREMENT FOR | BIOLOGICAL MATERIAI | L must be submitted. Note the |
| Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date May 6, 2005 | 6. 🛛 Interview Summa | Date <u>May 26, 2005</u> . |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. ⊠ Examiner's Stater 9. □ Other | ment of Reasons for Allowance |
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Art Unit: 1753

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with S. Matthew Cairns on May 26, 2005.

The application has been amended as follows:

IN THE CLAIMS

Claim 1, line 2, the word "and" has been deleted.

Claim 1, line 8, the "." (period) has been deleted and replaced with the words --, contacting the substrate with the electrolytic copper plating solution and applying sufficient current density to deposit copper on the substrate. --.

Claim 5, line 2, the word "and" has been deleted and replaced with the word -- or

Claim 7 has been cancelled.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claim **1-3 and 5-6** are allowable over the prior art of record because the prior art does not teach or suggest a method for electrolytic copper plating on a substrate comprising the steps of providing, contacting, contacting and applying as presently claimed, esp., wherein a compound of the formula -X-S⁻ in the electrolytic copper plating solution is controlled in the range of 1.0 μ m/L or lower.

Claim **8** is allowable over the prior art of record because the prior art does not teach or suggest a method of treating an electrolytic copper plating solution comprising the step of contacting as presently claimed, esp., wherein a compound of the formula $-X-S^-$ in the electrolytic copper plating solution is controlled in the range of 1.0 μ m/L or lower.

The prior art does not contain any language that teaches or suggests the above. Belongia et al. do not teach wherein a compound of the formula -X-S in the electrolytic copper plating solution is controlled in the range of 1.0 μ m/L or lower. Therefore, a person skilled in the art would not have been motivated to adopt the above conditions, and a prima facie case of obviousness cannot be established. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edna Wong whose telephone number is (571) 272-1349. The examiner can normally be reached on Mon-Fri 7:30 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 5

Edna Wong Primary Examiner Art Unit 1753

EW May 28, 2005